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Washington, DC 20231

Dear Sir:

Transmitted herewith for filing is the Utility PATENT Application in the name of Nelson Phero of 43 Beebetown Rd., Hammonton, New Jersey 08037 entitled **SKID WRAP ROLLER**.

Enclosed are:

1. Text of application - 10 pp. []
2. 2 sheets of informal drawings containing figures []
3. PTO Form 1449 with Copies of References Cited []
4. Information disclosure statement - 1 p. []
5. Power of attorney - 1 p []
6. Verified statement claiming small entity status - 1 p. . []
7. Inventor declaration - 2 pp []
5. Reply postcard for affixation of application number . . []

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Peggy Grosswiler
Name of person mailing correspondence

Peggy Grosswiler
Signature

October 20, 2000
Date

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VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
37 CFR 551.9(f) and 1.27(b)) --INDEPENDENT INVENTOR

As the below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9 for purposes of paying reduced fees under section 41 (a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled below and in:

Skid Wrap Roller

TITLE OF INVENTION

the specification filed herewith.
I have not assigned, granted, conveyed, or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9 if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9 (d) or a nonprofit organization under 37 CFR 1.9 (e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

no such person, concern or organization
I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small business entity is no longer appropriate. (37 CFR 1.28 (b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Full Name of First Inventor: Nelson Phero

Signature: Nelson Phero

Date: 5/18/2k Country of Citizenship: U.S.A.

Residence: 43 Beebetown Rd. Hammonton, NJ 08037

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SKID WRAP ROLLER

Priority is hereby claimed to Provisional Application No. 60/160,628 filed on 10/20/99 in the name of Nelson E. Phero for a Skid Wrap Roller.

FIELD OF THE INVENTION

The present invention is relative to an invention which facilitates the process of wrapping skids in such a manner so as to secure their contents without causing potential injury or harm to the laborer.

BACKGROUND OF THE INVENTION

The packing industry is renowned for the back injuries and muscle strains that often afflict its laborers and packers. Improvements geared toward the ergonomics of motion are often overlooked where manual laborers are concerned. The current invention is related to the field of skid wrapping which is integral to the freight or packing and shipping industries.

None of the relevant art, consisting of plastic wrap devices for wrapping "skids", have

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resolved the need for the operator to wrap skids from an awkward, bent over position, that generally puts strain on the spinal alignment and other muscles. Furthermore, smaller loads, which are too low to manipulate, also pose safety risks for the designated wrappers; although this type of load is generally placed on a forklift or electric lift to increase accessibility, the skid wrappers must often pass their arms and sometimes head beneath the skid in order to completely wrap the goods.

Patent 4,102,513 issued to Twyman Guard on September 14, 1977 describes a hand-held apparatus which is used to wrap plastic stretch film around an object. Unlike the present invention, Guard's device has a short handle which still requires the laborer to enter into awkward and possibly dangerous situations in order to surround the object with this film material.

Patent 4,535,951 issued to Paul K. Riemenschneider, III on August 20, 1985 describes an object useful in wrapping objects with a stretch film as well. This device, however, involves a mechanism in which a film roll with a tubular rigid core is clamped in between a pair of opposed core holders. A tension control assembly between the core and the core holders is responsible for adjustment of tension in the wrap during the wrapping process. Unlike the present invention, Riemenschneider's device does not provide an easier method to wrap the object which is beneficial to the health and safety of the laborer. Due to the design of the present invention, a user may wrap well above and below regular reach eliminating undue tension from bending and standing on toes to reach low and high objects respectively.

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SUMMARY OF THE INVENTION

The present invention is a device that is safer and more convenient for the operator to use than conventional wrapping methods. More specifically, the present invention is a skid wrap roller device which enables the operator to wrap skids from a safe position minimizing the risk of strain or other injury to life and limb. The present invention includes a pole, with a stop on one side, inserted into the hollow center of a spool of plastic wrap. The present invention provides the user greater control of the wrapping process while operating the device from a standing position.

The general structure of the present invention is a 60" wooden or hollow metal pole (½" dia.) with a 6" diameter plastic base and rubber stopper at one end. A standard-sized plastic wrap spool can be slid onto the pole from the other (unstoppered) end. The extended pole functions in like manner to a broom handle, enabling the operator to grasp the tool and manipulate the direction of the wrap from the top end (analogous to the broom handle), while the plastic wrap unrolls from the spool at the bottom end (where the broom head would be), ultimately reaching the desired goal of completely encasing the skid.

The wrap circumvents all elements which are placed upon the skid in an organized and uncompromising fashion to the laborer's well-being. The skid wrapper will be at less risk for potential back and neck pain as well as spinal misalignment.

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BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a side view of the present invention.

Figure 2 is an exploded view of the brake assay.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention has a long wooden or metal pole (10), as shown Figure 1, which is approximately 60" long; a foam grip (70) is disposed at the end of the pole (10). The long length of the pole (10) allows the laborer to hold the device and extend a spool (80) of wrap over an area to be covered without the laborer bending down and twisting the laborer's body in an awkward position. The length of the present invention eliminates squatting or climbing to properly wrap beds of items, and eliminates conventional ladder use in most wrapping due to height, because the spool (80) is disposed far along pole (10).

The pole (10) is inserted into spool (80) of wrapping material. Spool (80) is hollow. The diameter of 1 inch in the pole (10) provides for versatile use regarding different size spools (80) of wrapping material. Sleeve (68) is mounted atop pole (10) and has holes (50) along the

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diameter to act as attachments for a conventional cotter pin (not shown). The holes (50) are positioned along sleeve (68) for a 20", 18", 15", or 12" spool (80) of wrap, and corresponding holes (not shown) are similarly positioned along pole (10). It is contemplated that variously positioned holes (50) can be positioned along sleeve (68), and corresponding holes (not shown) can be similarly positioned along pole (10) depending on the length of a particular spool (80) chosen to be employed with the present invention. The hollow pole (10) serves as an axis about which the spool of wrap (80) can rotate. The smooth surface of the pole (10) allows for accelerated turning of the spool, and easier, expedited completion of the wrapping.

A stopper (40), preferably made of rubber, is continuous with a first end of the pole (10). The use of rubber for the stopper (40) allows easy turning access if the first end is placed on warehouse floors, loading docks or truck trailer beds while wrapping. The stopper (40) also protects low ceilings from marring as would happen with an unprotected end. The stopper (40) also acts as a safety measure to workers around the user if the present invention is extended in a somewhat horizontal manner from the objects being wrapped (not shown). Risk for injury is minimized by use of the stopper (40) if collision with other laborers should occur.

Tension from a circular plate (30) on the bottom side of the spool (80) and circular plug (20) on the top side of the spool (80) of wrap allow for secure and taut wrapping of the objects being wrapped (not shown). The circular plate (30) acts as a seat for an end of the spool (80) of wrap. The circular plug (20) also acts as a friction point to assist in the unraveling of the spool (80) of wrap. The plug (20) and plate (30) secure the spool (80) of wrap on the pole (10). The

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circular plug (20) is easily removed for spool (80) replenishment. The plate (30) and plug (20) are preferably fabricated of heavy plastic that is durable and easy to clean if necessary. In the preferred embodiment of the present invention, there are no bolts or screws necessary for attachment of plug (20) or plate (30). Plug (20) and plate (30) are separated from spool (80) via plug ring (22) and plate ring (32), respectively, which function like conventional washers.

Between plate (30) and stopper (40) are threads (34) which are part of pole (10). Threads (34) serve as a mounting point for tensioner (33), which is threaded on threads (34). Depending on the amount of resistance desired as the laborer turns spool (80), the tensioner (33) can be turned on threads (34) to apply pressure to plate (30) and cause spool (80) to turn more slowly, or tensioner (33) can be turned on threads (34) to remove pressure from plate (30) and cause spool (80) to turn more quickly.

Also included in the present invention is a brake assay (58) shown in Figure 2 as an exploded view. The brake assay (58) works much like a bicycle brake, in that it has an arm (60) that can be depressed to stop the flow of the spool (80) of wrap around an object (not shown) being wrapped. The laborer completes the final wrapping motion around the object being wrapped and depresses the arm (60) so that it frictionally engages spool (80) to prevent spool (80) from moving. The laborer can easily cut the spool (80) of wrap from the object being wrapped with a tearing motion. The assay (60) enables the laborer to be efficient in the quantity of the wrap on the spool (80). Arm (60) pivots within channel (65), the second part of the assay (58), so that arm (60) that can be depressed to stop the turning of the spool (80). The third part

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of the assay (60) is the sleeve (68) which fits around pole (10). The sleeve (68) provides a mounting surface for the channel (65), and sleeve (68) rotates about pole (10).

The present invention can be utilized to assist in wraps above and below the laborers normal grasp of reach. The long length of the pole (10) allows for easy access to high beds of objects, while still having versatility in objects low to the ground or on the floor. The elimination of kneeling and squatting to wrap objects will greatly reduce discomfort and possible injury in the wrapping process.

Primarily, the present invention is intended to be used in the wrapping of items with a hand held non-motorized device, as in a warehouse for shipping or storing. It is to be understood that the present invention is not limited to the sole embodiment described above, but encompasses any and all embodiments within the scope of the following claims.

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CLAIMS

I claim:

1. A skid wrap roller for holding a spool of wrap comprising:
 - a pole;
 - a sleeve, disposed on said pole;
 - a plug, disposed on said pole; and
 - a plate, disposed on said pole.
2. The apparatus according to claim 1, wherein said sleeve is attached to said pole.
3. The apparatus according to claim 1, wherein said plate is attached to said pole.
4. The apparatus according to claim 1, wherein said plug is attached to said pole.
5. The apparatus according to claim 1, wherein said plate and said plug are disposed about the spool of wrap.
6. The apparatus according to claim 1, further comprising grip on said pole.
7. The apparatus according to claim 1, wherein said pole is at least about 60 inches long.
8. The apparatus according to claim 1, wherein said pole is disposed within the spool of wrap.
9. The apparatus according to claim 1, further comprising holes in said sleeve.
10. The apparatus according to claim 1, further comprising holes along said pole.
11. The apparatus according to claim 10, wherein said holes along said pole correspond to holes in said sleeve.
12. The apparatus according to claim 1, further comprising a stopper disposed on said pole.

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13. The apparatus according to claim 1, further comprising a tensioner disposed along said pole.
14. The apparatus according to claim 13, wherein said tensioner is adjacent to said plate.
15. The apparatus according to claim 1, further comprising a brake assay disposed on said pole.
16. The apparatus according to claim 15, wherein said brake assay communicates with the spool.

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ABSTRACT

A tool used for wrapping boxes or shipments with plastic or other wrap in an ergonomic manner, as in warehouses or shipping departments. The tool is elongated and allows the user to rotate about the object to be wrapped. A tensioner makes it possible for the user to ensure that the wrapping is taught. A stopper allows the tool to come into contact with the ground.

故其後人多以爲子雲之子，蓋子雲之子，子雲之子也。

Figure 1

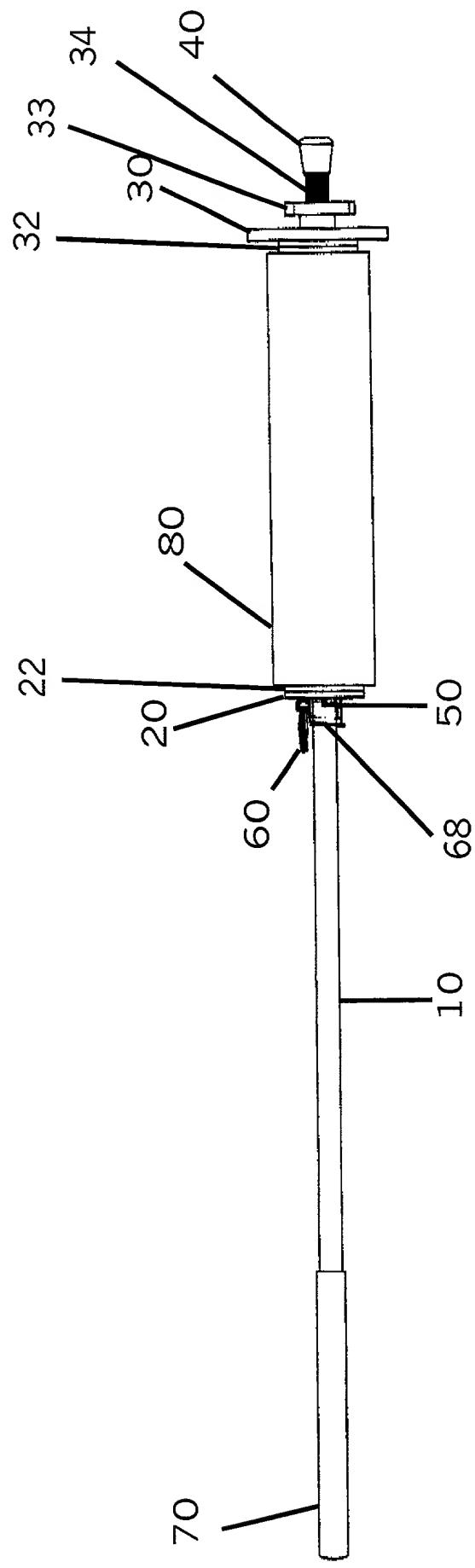
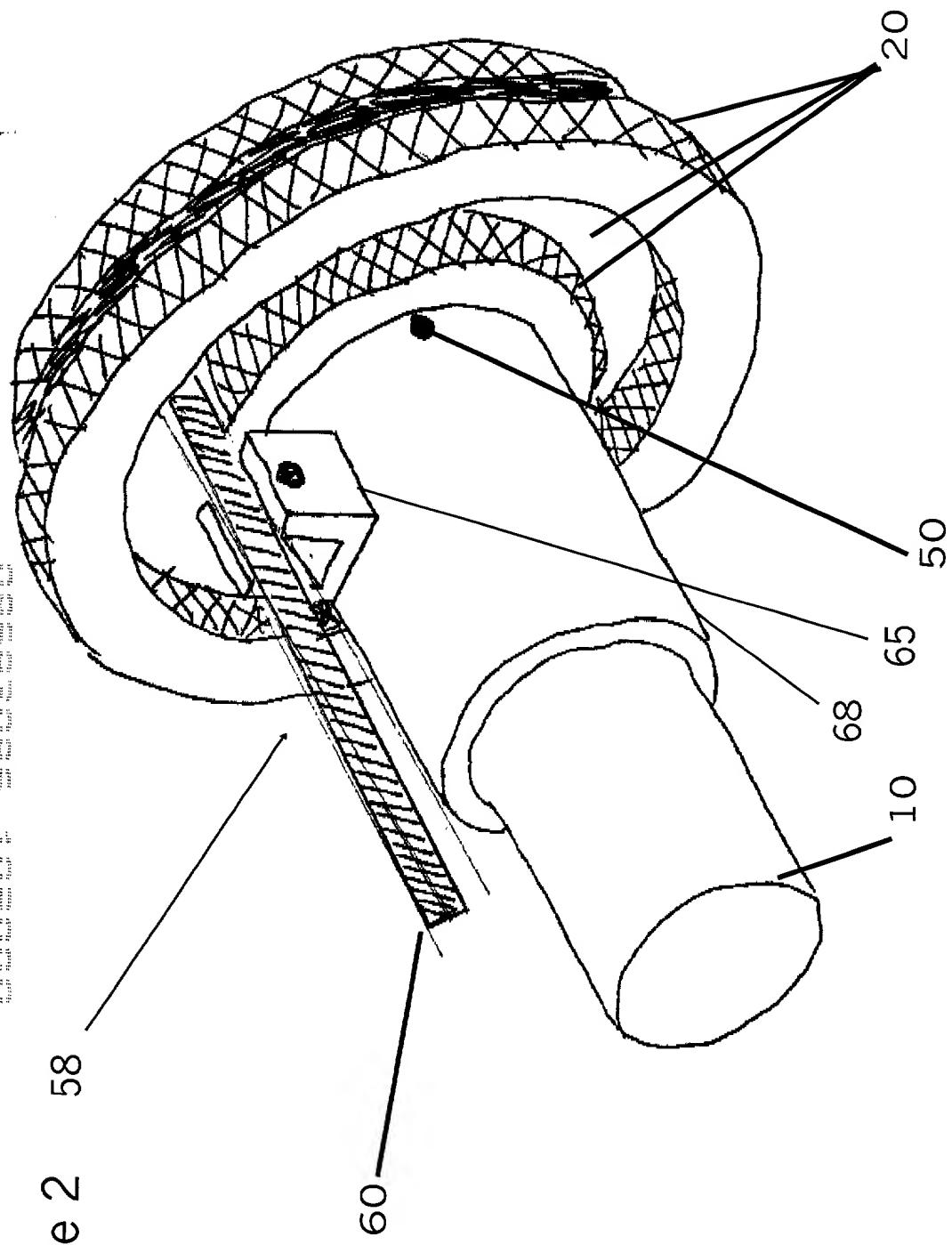


Figure 2



INVENTOR DECLARATION

As the below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

original
 design
 substitution
 divisional
 continuation
 continuation-in-part (CIP)

INVENTORSHIP IDENTIFICATION

My residence, post office address, and citizenship are as stated below next to my name, I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) on the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

Skid Wrap Roller

SPECIFICATION IDENTIFICATION

the specification of which: (complete (a) or (b))

(a) is attached hereto.

(b) _____ was filed on _____ as
Application Serial No. _____
and was amended on _____
(if applicable)

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations 1.56(a). I further acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations 1.56(a), which occurred between the filing date of the prior application and the national or PCT international filing date of this continuation-in-part application.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificates having a filing date before that of the application on which priority is claimed:

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURES

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Date: 10 5/18/24 Country of Citizenship: U.S.A.

Residence: 43 Beebetown Rd. Hammonton, NJ 08037

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